

WHAT IS CLAIMED IS:

1 1. A display apparatus, comprising:
2 a front cover;
3 a rear cover coupled to said front cover;
4 a display panel and a main PCB disposed between said front cover and rear cover;
5 a tuner unit having a casing, a tuner contained within said casing, and a connector electrically
6 extended from said tuner and protruding through said casing;
7 a receptacle formed on an outside surface of said rear cover; and
8 a connection port connected to said main PCB, protruding through a side defining said
9 receptacle to be connected to said connector of said tuner unit when said tuner unit is inserted into
10 said receptacle.

11 2. The display apparatus of claim 1, with said receptacle accommodating the insertion
12 of said tuner unit while said rear cover is coupled to said front cover.

13 3. The display apparatus of claim 2, further comprising an earth spring protruding from
14 said outside surface of said rear cover and facing said casing, said earth spring coming into contact
15 with an earth terminal of said tuner unit when said tuner unit is coupled to said rear cover.

16 4. The display apparatus of claim 3, with said rear cover comprising:
17 a passage formed on said outside surface of said rear cover; and
18 said earth spring having one end inserted into said passage and the other end extended from
19 said one end and exposed outside said rear cover so as to contact said earth terminal of said tuner
20 unit.

1 5. The display apparatus of claim 1, with said connection port being parallel to an
2 inserting direction of said tuner unit into said receptacle.

1 6. The display apparatus of claim 5, with said tuner unit is inserted into said receptacle
2 by sliding through a sliding opening part formed on said outside surface of said rear cover.

1 7. The display apparatus of claim 1, further comprising:
2 said tuner unit including an earth terminal exposed outside said casing; and
3 said rear cover having a through hole formed on side defining said receptacle of said rear
cover in parallel with a sliding inserting direction of said tuner unit into said receptacle, said rear
cover having an earth spring mounted in said through hole and elastically contact said earth terminal.

1 8. The display apparatus of claim 1, with said rear cover formed with a hole through
2 which said connection port coupled to said main PCB is inserted in order to be exposed to outside
of said rear cover.

1 9. The display apparatus of claim 1, further comprising a tuner cover removably
2 coupled to said side and shielding said tuner unit attached to said rear cover.

1 10. The display apparatus of claim 1, further comprising a coupling member coupling
2 said tuner unit to said outside surface of said rear cover.

1 11. The display apparatus of claim 10, said coupling member comprising a female screw
2 formed on said side of said rear cover and a male screw coupling said tuner unit to said rear cover
3 through said female screw.

1 12. The display apparatus of claim 1, with said tuner unit further comprising a tuner PCB
2 having a video decoder converting a TV video signal transmitted from an external surface to said
3 tuner into a digital signal and transmitting said digital signal to said main PCB through said
4 connector and said connection port.

1 13. A tuner apparatus, comprising:
2 a casing having a first side, a second side, a first hole formed on said first side, a second hole
3 formed on said second side; and

4 a tuner disposed within said casing, having both an antenna terminal for receiving a TV
5 signal and a connector for transmitting a decoded TV signal to outside of said casing, said connector
6 protruding from said casing through said first hole, said antenna terminal protruding from said casing
7 through said second hole.

8 14. The tuner apparatus of claim 13, wherein said first side of said casing is the same as
9 said second side of said casing.

10 15. The tuner apparatus of claim 13, wherein said first side of said casing is not disposed
11 on a plane of said second side of said casing.

12 16. The tuner apparatus of claim 13, wherein said first side and second side of said casing
13 are perpendicular to each other.

14 17. The tuner apparatus of claim 13, further comprising:
15 a display apparatus including a main cover, a display device and a main printed circuit board
16 contained within said main cover, a receptacle formed on an outside surface of said main cover, and

4 a third side and a fourth side both formed on said outside surface of said main cover and defining
5 said receptacle; and
6 said casing disposed within said receptacle.

1 18. The tuner apparatus of claim 17, further comprising a connection port formed on said
2 third side, coupled to said main printed circuit board, protruding from said third side, and connected
3 to said connector of said tuner contained within said casing when said casing is inserted into said
4 receptacle.

19. The tuner apparatus of claim 18, wherein said first side of said casing faces said third
side of said main cover.

20. The tuner apparatus of claim 17, wherein said third side and said fourth side are not
disposed on a common plane.

21. The tuner apparatus of claim 17, wherein said third side is perpendicular to said fourth
side.

1 22. The tuner apparatus of claim 17, further comprising:
2 an earth spring coupled to said main printed circuit board and protruding from said fourth
3 side of said main cover; and
4 an earth terminal connected to said tuner, formed on a fifth side of said casing, and coupled
5 to said earth spring of said display apparatus when said casing is disposed within said receptacle.

1 23. The tuner apparatus of claim 17, further comprising a cover coupled to said main
2 cover to cover said casing disposed within said receptacle.

1 24. The tuner apparatus of claim 17, said casing attached to said outside surface of said
2 main cover of said display apparatus.

1 25. The tuner apparatus of claim 17, said tuner coupled to said main printed circuit board
2 without disassembling of both said main cover of said display apparatus and said casing of said tuner
3 apparatus.

4 26. The tuner apparatus of claim 17, said casing attached to said main cover of said
5 display apparatus after said display apparatus is assembled.

6 27. A tuner apparatus, comprising:
7 a casing having a first hole and a second hole;
8 a tuner contained in said casing;
9 an antenna terminal connected to said tuner, protruding through said first hole to receive a
TV signal from outside of said casing;
a decoder disposed within said casing and coupled to said tuner to decode said TV signal;
and
a connector connected to said tuner and said decoder, protruding through said second hole
to transmit said decoded TV signal to said outside of said casing.

1 28. The tuner apparatus of claim 27, further comprising:
2 a display apparatus having a display panel, a housing containing said display panel, and an
3 outlet surface formed on said housing;
4 a third hole formed on said outer surface; and
5 a connection port disposed in said third hole and connected to said connector when said
6 casing is disposed on said outer surface of said housing.

1 29. The tuner apparatus of claim 27, wherein said TV signal is an analog signal while said
2 decoded TV signal is a digital signal.